

Appl. No. 09/781,090

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Prelim. Amdt. following RCE of Jan. 14, 2005, dated Jan. 25, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

What is claimed is:

1 - 20 (canceled)

21 (new): A vehicle comprising:

at least one large annulate wheel with a large toroidal hub, and a correspondingly large toroidal axle joined to said vehicle to rotatably position and urge said large toroidal hub to effect rotatory movements of said large annulate wheel;

at least one fully closed toroidal rotor with magnetic and/or electromagnetic means of an electric motor, attached to or integrated with said large toroidal hub;

at least one stator with magnetic and/or electromagnetic means of said electric motor, attached to or integrated with said large toroidal axle;

at least one opening fully encircled by said fully closed toroidal rotor with magnetic and/or electromagnetic means of said electric motor, which is large enough to allow the entry and exit of a passenger of said vehicle, through said large toroidal axle;

a bearing means linked to said large toroidal hub and said large toroidal axle to decrease the friction between said large toroidal hub and said large toroidal axle during said rotatory movements of said large annulate wheel;

a source of electric power with said electric power conducting [[conducts]] through

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App. No. 09/010,100

Prodn. Audit. following RCE of Jan. 14, 2005, dated Jan. 25, 2005

Reply to Office action of Jan. 23, 2005

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electrical and/or electronic processing unit or units to said electric motor to rotatably urge said electric motor which mechanically transfers torque to said large annulate wheel; and

at least one more ~~[[of]]~~ said large annulate wheel or any other wheel, placed at an axial distance from the first said large annulate ~~[[wheel and]]~~ wheel, linked rotatably to said vehicle, ~~[[which is]]~~ and rotatably urged by a torque-giving power source.

22 (new): A vehicle in accordance with claim 21, wherein said stator with magnetic and/or electromagnetic means of said electric motor is semi-annular in axial profile.

23 (new): A vehicle in accordance with claim 21, wherein said electric motor is a permanent-magnet ac motor with or without magnetic sensors positioned on said stator with magnetic and/or electromagnetic means of said electric motor.

24 (new): A vehicle in accordance with claim 21, wherein ~~[[an]]~~ the addition of a set of hook or hitch means on the rear end of said vehicle converts said vehicle into a traction vehicle.

25 (new): A plurality of vehicles with each vehicle in accordance with claim 21, wherein the first said vehicle has an electronic communication ~~[[link]]~~ linking means to exchange data from said electrical and/or electronic processing unit or units of the first said vehicle with data from said electrical and/or electronic processing unit or units of another said vehicle, and

Appl. No.09/781,090

FAX COPY

Prelim. Amst. following RCE of Jan. 14, 2005, dated Jan.25, 2005

Reply to Office action of Jan.03, 2005

so on, to effect the formation of an electronically linked enumeration of vehicles; and said electronically linked enumeration of vehicles is movably steered by the manipulation of said data from said electrical and/or electronic processing unit or units of the first said vehicle, mainly at the discretion of one said passenger of the first said vehicle.

26 (new): A vehicle in accordance with claim 21, wherein said opening fully encircled by said fully closed toroidal rotor with magnetic and/or electromagnetic means of said electric motor has full or partial cover means hinged or linked movably either to said large toroidal axle or to said vehicle.

27 (new): A vehicle comprising:

at least one toroidal electric motor with the rotor and the stator of said toroidal electric motor ~~[[forming]]~~ formed toroidally;

said rotor of said toroidal electric motor angularly and fully encircling said stator of said toroidal electric motor, the curved exterior of said rotor of said toroidal electric motor having a ground-contact surface which permanently or occasionally remains in contact with the surface on which said vehicle travels;

said stator of said toroidal electric motor angularly and fully encircled by said rotor of said toroidal electric motor having opening means disposed in the area of the inner circle of the outer toroidal form of said toroidal electric motor, for passage of the occupant or occupants of said vehicle;

said stator of said toroidal electric motor linked with joining means to the body of said vehicle; and